QC ABSTRACT

NAME OF WORK: Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1

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8	RMC(M20)	Compressive Strength(7days and 28days)	3 set /31-50 cum	48 28	6	6
9	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-02-01-01** **Date: 06-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No 11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S GRD Developers and Construction(Prop) Sri Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-05-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-02-01-01** **Date: 01-06-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-05-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-02-01-01** **Date: 06-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-02-01-01** **Date: 06-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.42	_
6	Water Absorption(%)	0.25	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-02-01-01** **Date: 05-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	_

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Vidyaranyapura Sub-Division
Gubath Bengaluru Mahanagara Palike

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-02-01-01** **Date: 05-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 05-05-21

Lab ID	:	**CP-2022-02-01-01**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-05-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-02-01-01** **Date: 05-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-02-01-01** **Date: 05-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	04-05-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	521	648	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	548	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	568	685	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.582	582	695	19.0%	Satisfactory	Satisfactory

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-02-01-01** **Date: 15-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-21
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-05-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	72	72	7.2	92.8	90-100
3	1.18 mm	188	260	26.0	74.0	70-100
4	600 micron	153	413	41.3	58.7	40-100
5	300 micron	218	631	63.1	36.9	5-70
6	150 micron	302	933	93.3	6.7	0-15
7	Pan	67	1000	100.0	0.0	0

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Sig.....
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-02-01-01** **Date: 15-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.22	_
2	Specific Gravity	2.53	_
3	Material finer than 75 micron(%)	10.1	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.92	_
5	Loose Bulk Density (Kg/litre)	1.75	_

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Quality Manager

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2022-02-01-01** **Date: 15-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-21
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-05-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	11	11	1.1	98.9	95-100
3	2.36 mm	20	31	3.1	96.9	95-100
4	1.18 mm	42	73	7.3	92.7	90-100
5	600 micron	101	174	17.4	82.6	80-100
6	300 micron	332	506	50.6	49.4	20-65
7	150 micron	388	894	89.4	10.6	0-15
8	Pan	106	1000	100.0	0.0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-02-01-01** **Date: 15-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.25	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	9.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2022-02-01-01** **Date: 07-05-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No 11(Kuvempunagara) Vidyaranyapura Sub Division
Agency	:	M/S GRD Developers and Construction(Prop) Sri Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	03-05-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	201	201	16160	33.596	2078.9	2026.1	Not less than 1800Kg/m^3
2	403	202	201	16363	32.041	1958.2		
3	401	198	201	15959	32.576	2041.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.58	3.92	4.24	Shall not be more than 10% by mass
2	33.57	32.15	4.25		
3	33.44	31.92	4.55		

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Lab ID : **CP-2022-02-01-01** **Date: 07-05-21**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	201	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	200	201	
3	400	201	200	
4	400	202	199	
5	401	201	199	
6	400	199	203	
7	400	203	199	
8	401	201	199	
9	404	201	200	
10	400	200	199	
11	399	201	201	
12	403	200	199	
13	400	200	199	
14	404	199	200	
15	399	202	199	
16	404	199	199	
17	399	202	200	
18	400	200	199	
19	402	202	199	
20	403	203	200	
Average of 20	**401**	**201**	**200**	

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Lab ID : **CP-2022-02-01-01** **Date: 07-05-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80425	377.4	4.7	4.7
2	400	200	79860	375.6	4.7	
3	400	201	80443	379.3	4.7	
4	400	202	80666	376.9	4.7	
5	401	201	80611	376.9	4.7	
6	400	199	79709	378.5	4.7	
7	400	203	81058	373.8	4.6	
8	401	201	80884	380.7	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-02-01-01** **Date: 17/05/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Construction of Anganavadi Building at Hosabalunagara in Ward No 11(Kuvempunagara) Vidyaranyapura Sub Division.

Agency : M/S GRD Developers and Construction(Prop) Sri Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92

Customer's Reference : BBMP/EE/BTP/WO/115/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-05-21

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	10/05/2021	17/05/2021	149.27 X 149.59 X 149.46	22330	8.720	415.1	18.6	18.4
2	Footing Concrete	M20	10/05/2021	17/05/2021	151.81 X 149.42 X 151.89	22684	8.236	419.9	18.5	
3	Footing Concrete	M20	10/05/2021	17/05/2021	150.82 X 150.72 X 149.38	22732	8.187	410.9	18.1	

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Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-02-01-01** **Date: 07/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganavadi Building at Hosabalunagara in Ward No 11(Kuvempunagara) Vidyaranyapura Sub Division.

Agency : M/S GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92

Customer's Reference : BBMP/EE/BTP/WO/115/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-05-21

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	10/05/2021	07/06/2021	149.95 X 149.05 X 151.05	22351	8.623	524.5	23.5	23.2
2	Footing Concrete	M20	10/05/2021	07/06/2021	149.85 X 151.08 X 149.75	22638	8.509	506.0	22.4	
3	Footing Concrete	M20	10/05/2021	07/06/2021	149.25 X 149.17 X 151.01	22263	9.065	528.7	23.7	

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R KARTHIK RECHAN
Authorized Signatory
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-02-01-01** **Date: 27/05/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.

Agency : M/S GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92

Customer's Reference : BBMP/EE/BTP/WO/115/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-21

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	20/05/2021	27/05/2021	151.56 X 151.72 X 149.49	22995	8.955	431.9	18.8	18.4
2	Column Concrete	M20	20/05/2021	27/05/2021	150.24 X 149.61 X 149.81	22477	8.831	414.3	18.4	
3	Column Concrete	M20	20/05/2021	27/05/2021	149.73 X 151.02 X 151.20	22612	9.052	407.1	18.0	

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Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-02-01-01** **Date: 17/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.

Agency : M/S GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92

Customer's Reference : BBMP/EE/BTP/WO/115/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-21

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	20/05/2021	17/06/2021	149.56 X 151.79 X 149.78	22702	8.372	526.9	23.2	23.1
2	Column Concrete	M20	20/05/2021	17/06/2021	151.44 X 149.54 X 151.07	22647	8.763	503.1	22.2	
3	Column Concrete	M20	20/05/2021	17/06/2021	149.87 X 151.56 X 149.76	22715	9.027	542.7	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-02-01-01** **Date: 08/06/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganavadi Building at Hosabalunagara in Ward No.11(Kuvempunagara) Vidyaranyapura Sub Division.

Agency : M/S.GRD Developers and Construction(Prop) Sri.Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92

Customer's Reference : BBMP/EE/BTP/WO/115/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-21

Customer ID : Roof slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof slab	M20	01/06/2021	08/06/2021	150.49 X 151.80 X 151.75	22846	8.838	432.5	18.9	18.8
2	Roof slab	M20	01/06/2021	08/06/2021	151.52 X 149.33 X 149.60	22626	8.706	428.0	18.9	
3	Roof slab	M20	01/06/2021	08/06/2021	149.37 X 150.24 X 149.05	22441	8.166	416.6	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-02-01-01** **Date: 29/06/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganavadi Building at Hosabalunagara in Ward No 11(Kuvempunagara) Vidyaranyapura Sub Division
Agency	:	M/S GRD Developers and Construction(Prop) Sri Govardhan D #2822,14th main, 3rd Cross, E Block, Sahakarnagara, Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/115/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-21
Customer ID	:	Roof slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	29/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Roof slab	M20	01/06/2021	29/06/2021	150.46 X 151.74 X 150.22	22832	8.194	533.5	23.4	23.3
2	Roof slab	M20	01/06/2021	29/06/2021	150.47 X 150.60 X 151.87	22660	8.545	520.0	22.9	
3	Roof slab	M20	01/06/2021	29/06/2021	151.88 X 150.27 X 151.08	22823	8.208	540.0	23.7	

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